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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,302	02/28/2002	Alexander Medvinsky	018926-008400US	2065

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Motorola, Inc.
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EXAMINER

GELAGAY, SHEWAYE

ART UNIT	PAPER NUMBER
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2137

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05/07/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/086,302	Applicant(s) MEDVINSKY, ALEXANDER	
	Examiner Shewaye Gelagay	Art Unit 2137	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 January 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-12, 18, 20-22 and 24-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-12, 18, 20-22 and 24-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to Applicant's amendment filed on January 31, 2007. Claims 1, 4, 18 and 22 have been amended. Claims 1-6, 8-12, 18, 20-22 and 24-26 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-6, 8, 11-12, 18, 20-22 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang United States Letter Patent Number 6,069,877 in view of Brezak et al. (hereinafter Brezak) U.S. Publication Number 2002/0150253.

As per claim 1:

Yang discloses a method for detecting clones (unauthorized duplicate identities) of the client, the method comprising:

forwarding a first signal from a client, the first signal for requesting access to a server; (Col. 2, lines 44-61; Col. 3, lines 39-45 and lines 59-60; Col. 10, lines 43-45)

verifying that the client is authorized to access the server; (Col. 4, lines 4-5)

receiving a second signal from an entity prior to expiration of the time T, the second signal for requesting access to the server, wherein the entity has identifying information identical to the client; (Col. 3, lines 59-67; Col. 4, lines 6-9) and

marking the entity as a possible clone or denying the second request in order to prevent access to the server. (Col. 2, line 45; Col. 4, lines 9-14; Col. 11, lines 21-28)

In addition, Yang discloses if the identification code of the second unit is an apparent duplicate of the first unit and if the first unit has already registered, refusing the registration of the second unit. (Col. 4, lines 9-14) Yang further discloses a base stations for establishing a session with one or more of the plurality of client units and communicating information between a host computer and one or more mobile communication units. (Col. 2, lines 57-61 and Col. 3, lines 40-45).

Yang does not explicitly disclose a KDC and transmitting an authentication token including an encrypted session key from the KDC to the client, the authentication token for providing access to the server, wherein the authentication token is valid for a time T.

Brezak in analogous art, however, disclose a KDC and transmitting an authentication token including an encrypted session key from the KDC to the client, the authentication token for providing access to the server, wherein the authentication token is valid for a time T. (page 4, paragraph 56, page 5, paragraphs 59-60 and 65)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system disclosed by Yang with Brezak in order to protect the integrity of computer systems and the confidentiality of important

Art Unit: 2137

data and prevent unauthorized users and malicious attackers from gaining access to computer resource. (page 1, paragraph 2; Brezak)

As per claim 2:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a method wherein the encrypted session key is valid for a designated duration. (Page 4, paragraph 55)

As per claim 3:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a method wherein the designated duration is for determining the time T for which the authentication token is valid. (Page 4, paragraph 55)

As per claims 4 and 18:

Yang teaches a system for detecting clones of a client within a communication network, the system comprising:

an application server communicably; (Figure 1, Col. 3, line 39)

a client for providing a first request to access the application server; (Figure 1, Col. 3, lines 37-38)

receiving a second request during time T to access the application server, the second request being received from an entity having identifying information identical to the client; (Col. 3, lines 59-67; Col. 4, lines 6-9) and

the KDC denying the second request to prevent the entity from accessing the application server. (Col. 4, lines 9-14; Col. 11, lines 21-28)

In addition, Yang further discloses a base stations for establishing a session with one or more of the plurality of client units and communicating information between a host computer and one or more mobile communication units. (Col. 2, lines 57-61 and Col. 3, lines 40-45).

In addition, Yang discloses if the identification code of the second unit is an apparent duplicate of the first unit and if the first unit has already registered, refusing the registration of the second unit. (Col. 4, lines 9-14) Yang further discloses a base stations for establishing a session with one or more of the plurality of client units and communicating information between a host computer and one or more mobile communication units. (Col. 2, lines 57-61 and Col. 3, lines 40-45).

Yang does not explicitly disclose a KDC and transmitting an authentication token including an encrypted session key from the KDC to the client, the authentication token for providing access to the server, wherein the authentication token is valid for a time T.

Brezak in analogous art, however, disclose a KDC and transmitting an authentication token including an encrypted session key from the KDC to the client, the authentication token for providing access to the server, wherein the authentication token is valid for a time T. (page 4, paragraph 56, page 5, paragraphs 59-60 and 65)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system disclosed by Yang with Brezak in order to protect the integrity of computer systems and the confidentiality of important data and prevent unauthorized users and malicious attackers from gaining access to computer resource. (page 1, paragraph 2; Brezak)

Art Unit: 2137

As per claim 5:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Yang further discloses a system wherein the entity is a clone. (Col. 2, line 45)

As per claims 6, 24 and 25:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Yang further discloses a system wherein the identifying information is a client identifier copied by the clone. (Col. 3, lines 1-4)

As per claim 8:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a system comprising the client deriving a copy of the session key for accessing the application server. (Page 4, paragraphs 56-57)

As per claims 11, 12 and 20:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a system comprising using a key algorithm for authenticating communication between the KDC and the client such that all clients wishing access to the server are required to contact the KDC. (Page 4, paragraphs 56-57)

As per claim 21:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a system wherein a ticket

Art Unit: 2137

granting server is the server, and the ticket is a ticket granting ticket. (Page 4, paragraphs 56-58)

As per claim 22:

Yang teaches a method for detecting clones in a communication network, the method comprising:

receiving a request during time T to access the KDC, the request being received from an entity with the same identifying information as the authorized client; (Col. 3, lines 59-67; Col. 4, lines 6-9) and

if the request is received during time T, flagging the entity as a possible clone or denying the request to access. (Col. 2, line 45; Col. 4, lines 9-14; Col. 11, lines 21-28)

In addition, Yang further discloses a base stations for establishing a session with one or more of the plurality of client units and communicating information between a host computer and one or more mobile communication units. (Col. 2, lines 57-61 and Col. 3, lines 40-45).

Yang does not explicitly disclose a KDC and providing a an authentication token including an encrypted session key to an authorized client, the authentication token for accessing a KDC, the session key valid for a time duration T.

Brezak in analogous art, however, discloses a KDC and providing a an authentication token including an encrypted session key to an authorized client, the authentication token for accessing a KDC, the session key valid for a time duration T. (page 4, paragraph 56, page 5, paragraphs 59-60 and 65) Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was

Art Unit: 2137

made to modify the system disclosed by Yang with Brezak in order to protect the integrity of computer systems and the confidentiality of important data and prevent unauthorized users and malicious attackers from gaining access to computer resource. (page 1, paragraph 2; Brezak)

As per claim 26:

The combination of Yang and Brezak discloses all the subject matter as discussed above. In addition, Brezak further discloses a system wherein the KDC is the server. (Page 3, paragraph 42)

4. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang United States Letter Patent Number 6,069,877 in view of Brezak et al. (hereinafter Brezak) U.S. Publication Number 2002/0150253 further in view of Tung et al. Public Key Cryptography for Initial Authentication in Kerberos, Internet Draft, (hereinafter Tung).

As per claim 9:

The combination of Yang and Brezak discloses all the subject matter as discussed above. Both references do not explicitly disclose a system wherein the encrypted session key is derived using a key agreement algorithm.

Tung in analogous art, however, discloses a system wherein the session key is derived using a key agreement algorithm. (Section 2, paragraph 2)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system disclosed by Yang and Brezak to include a system wherein the session key is derived using a key agreement algorithm. This modification would have been obvious because a person having

ordinary skill in the art would have been motivated to do so, as suggested by, Tung (Section 2, paragraph 4) in order to enable access to Kerberos-secured services based on initial authentication using public key cryptography.

As per claim 10:

The combination of Yang, Brezak and Tung disclose all the subject matter as discussed above. In addition, Tung further discloses a system wherein the key agreement algorithm is the Diffie-Hellman algorithm. (Section 2, paragraph 3)

Response to Arguments

5. Applicant's arguments January 31, 2007 have been fully considered but they are not persuasive. In response to applicant argument the following comments are made:

6. The applicant argued that there is no motivation or suggestion to modify or combine the references. The Examiner respectfully disagrees. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Yang teaches a system that detects duplicate device in a network particularly accessed by one or more mobile communication units. Brezak teaches an access control to a network by selectively

controlling access to the authentication information. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system disclosed by Yang with Brezak in order to protect the integrity of computer systems and the confidentiality of important data and prevent unauthorized users and malicious attackers from gaining access to computer resource. (page 1, paragraph 2; Brezak)

The applicant argued that Yang fails to teach "received prior to ... expiration of time T" and "marking the entity as a possible cone or denying the request in order to prevent access to the server." The examiner respectfully disagrees. Yang teaches the phrase "registered to a communication network", and the like, includes the mobile communication unit being in a session or beginning a session with a host computer, base station or other device which establishes a connection for exchanging application and/or informational based communications with such device. Yang further teaches a mobile communication unit attempting to register to a communication network with a duplicate identification code as that of another mobile communication unit already registered (i.e. prior to expiration time T) to the network, is detected and refused (i.e. denying the request) registration to the network. (Col. 2, lines 57-61) In addition, Yang teaches receiving a session request from the mobile unit; determining the identification code of the mobile unit; determining if there is already a session in progress with any mobile communication unit having the same apparent identification code; and refusing registration to the mobile communication unit if there already is a session in progress

Art Unit: 2137

with the any mobile communication unit having the same apparent identification code.

(Col. 3, lines 59-67).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

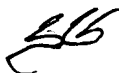
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shewaye Gelagay whose telephone number is 571-272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2137

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shewaye Gelagay



EMMANUEL E. MOISE
SUPERVISORY PATENT EXAMINER